1956

Not for Publication

RX-INT
INSECT SURVEY PROGRAM
Roports
Aorial Survoy

PAYETTE NATIONAL FOREST

Annual Aorial Survoy

Soptombor 12, 13, 14, 1956

by

W. E. Colo - W. E. Minoau[1]/
Entomologists

An aorial survoy of tho Payotto National Forost was conductod on Soptombor 12, 13, and 14, 1956. Tho purposo of tho oxamination was to dotoct, locato, and doscribo tho ovidonco of unusual forost insoct activity. Such an aorial survoy also aids in planning ground covorago by rovoaling tho dangor spots.

Tho spruco budworm is tho most prominont post at this timo. Throo dogroos of intonsity of damago woro usod on tho aorial work with budworm: light, modium, and hoavy dofoliation. This was basod on current yoar dofoliation. A ground appraisal survoy covoring tho spruco budworm situation has boon roportod soparatoly[2]/.

Bark bootlo damago was also obsorvod and rocordod during tho aorial survoy. In tho caso of most bark bootlos, tho aorial dotoction rovoals only tho damago of tho provious yoar's attacks and not tho now infostations. In somo casos thoro may bo fading of foliago during tho soason of attacks. Gonorally, ground work is roquirod to dotormino tho current status of bark bootlo infostations.

It is plannod to mako yoarly aorial oxaminations of tho forost to obsorvo tho gonoral conditions and possiblo dangorous situations in tho oarly stagos of dovolopment. Observations by Payotto National Forost porsonnol during tho yoar will also aid in improving our system of dotoction.

Tho attachod map shows tho flight linos followod during tho aorial survoy and tho contors of infostation as mappod. A doscription of oach aroa is koyod out on tho map with briof statomonts on tho insoct spocios involvod.

1/Forostry Aid - Rosoarch

2/Colo, W. E. 1956. Spruco Budworm in Southorn Idaho with Spocial Roforonco to Survoys. Mimoo. IF&RES. F.S. Ogdon, Utah.

Area A.
This area encompasses the Big Creek drainage and its tributaries. There are approximately 237,000 acres of heavy budworm defoliation within this area. There was a conspicuous lack of beetle-killed trees within this area. The only damage found consisted of about 20 to 50 alpine fir trees scattered throughout upper Hand Creek, Meadow Fork of Big Ramey Creek and Big Ramey Creek.

Area B.
For reasons of location, Area B includes all of the drainages within Chamberlain Basin.

There are some 13,400 acres of light budworm defoliation to the west and north of Burnt Knob.

The bark beetle damage that was located could be considered endemic. However, about 25 to 30 ponderosa pine "faders", probably due to western pine beetle, were located scattered along the lower portion of Chamberlain Creek.

Area C.
This area lies between Secesh River and the Salmon River, including both sides of South Fork of the Salmon River.

There are three areas of budworm damage: (1) Zena Creek - 6,000 acres, medium to heavy defoliation; (2) Pony Creek - 22,000 acres, light to heavy defoliation; and (3) Chicken Creek - 7,000 acres, light defoliation.

Douglas-fir bark beetle damage was light, with the only concentration found in Big Buck Creek. Fir engraver beetle damage could be considered as endemic. About 50 to 60 mountain pine beetle-killed lodgepole pine trees were located in Deering Creek.

Area D.
This area lies due north of McCall and contains a few scattered groups of bark beetle damage. The only concentration of damage, some 50 to 60 Douglas-fir "faders", were located in Wagon Bay Creek.

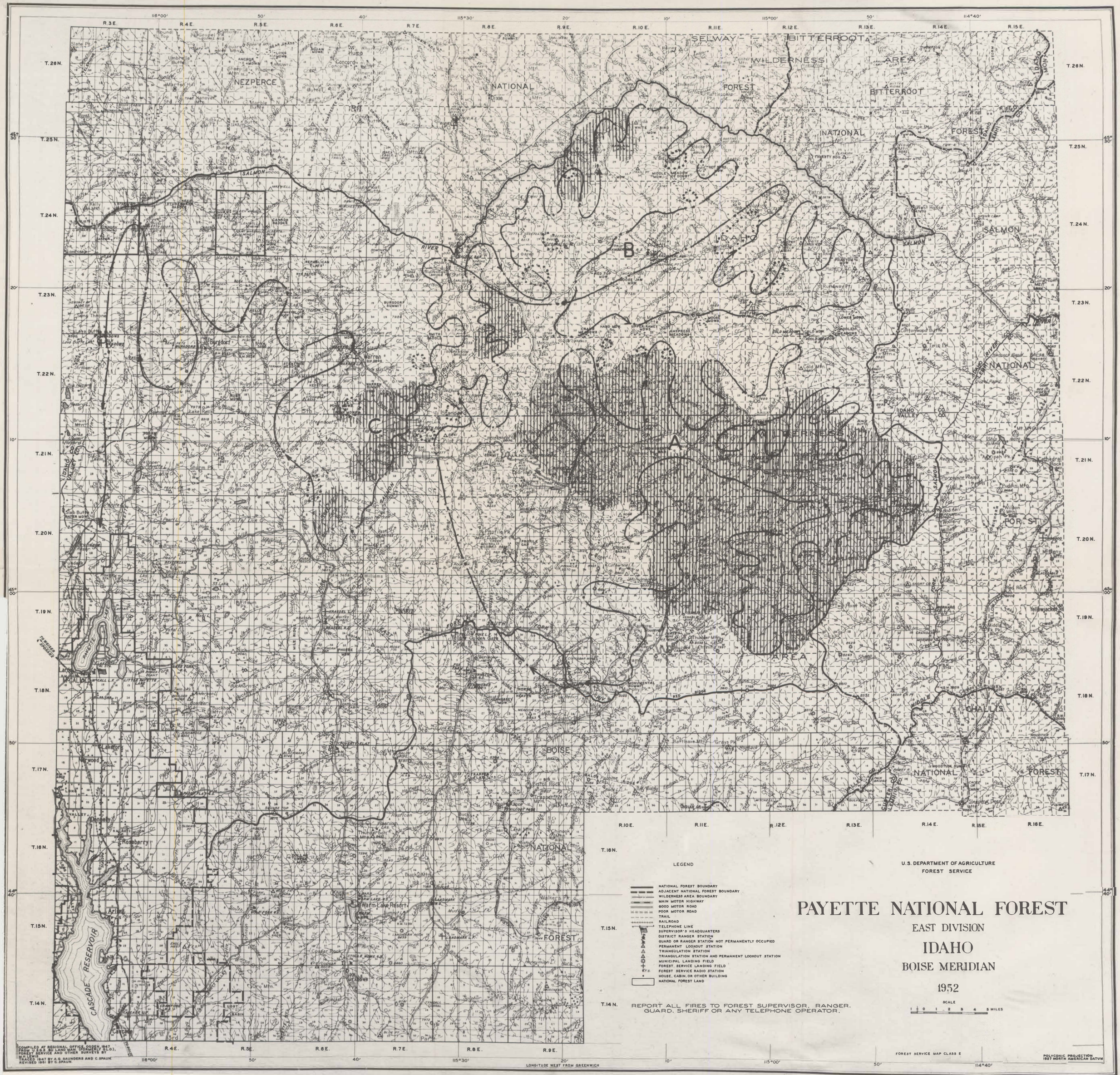
Area E.
Area E includes all of Council Mountain and south to Cougar Basin. This area contained probably the heaviest concentration of Douglas-fir bark beetle damage on the Payette Forest. Between 550 to 600 Douglas-fir and about 20 to 35 ponderosa pine "faders" were located in the area.

SUMMARY

The totals of the damaged areas as determined from aerial survey are as follows:

550-650 Douglas-fir Trees - Douglas-fir bark beetle
270-330 Alpine fir trees - Fir Engraver
20-35 Ponderosa Pine - Western Pine Beetle
60-85 Lodgepole Pine - Mountain Pine Beetle
285,400 acres of Spruce Budworm damage

Of course, the East Fork-South Fork of the Salmon River and the Lost Valley Reservoir areas are usually areas of heavy Douglas-fir bark beetle losses. However, since there are research studies in these areas, these losses could best be presented in their respective reports.



LEGEND

- NATIONAL FOREST BOUNDARY
- ADJACENT NATIONAL FOREST BOUNDARY
- WILDERNESS AREA BOUNDARY
- MAIN MOTOR HIGHWAY
- GOOD MOTOR ROAD
- POOR MOTOR ROAD
- TRAIL
- RAILROAD
- TELEPHONE LINE
- SUPERVISOR'S HEADQUARTERS
- DISTRICT RANGER STATION
- GUARD OR RANGER STATION NOT PERMANENTLY OCCUPIED
- PERMANENT LOOKOUT STATION
- TRIANGULATION STATION
- TRIANGULATION STATION AND PERMANENT LOOKOUT STATION
- MUNICIPAL LANDING FIELD
- FOREST SERVICE LANDING FIELD
- F.S. FOREST SERVICE RADIO STATION
- HOUSE, CABIN, OR OTHER BUILDING
- NATIONAL FOREST LAND

REPORT ALL FIRES TO FOREST SUPERVISOR, RANGER, GUARD, SHERIFF OR ANY TELEPHONE OPERATOR.

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PAYETTE NATIONAL FOREST

EAST DIVISION

IDAHO

BOISE MERIDIAN

1952

SCALE 1 0 1 2 3 4 5 MILES

COMPILED AT REGIONAL OFFICE, OGDEN, 1947, FROM U.S.G.S. AND LAND MAN. (FORMERLY G.L.O.), FOREST SERVICE AND OTHER SURVEYS BY FOREST SERVICE AND OTHER SURVEYS BY MAPWISE
MAP PLACED 1947 BY A.G. SAUNDERS AND C. SPAUN.
REVISED 1951 BY C. SPAUN.

FOREST SERVICE MAP CLASS E

POLYCONIC PROJECTION
1927 NORTH AMERICAN DATUM

LONGITUDE WEST FROM GREENWICH

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
LYLE F. WATTS, CHIEF
ANTHONY P. DEAN, CHIEF, DIVISION OF ENGINEERING

PAYETTE NATIONAL FOREST
(WEST DIVISION)
IDAHO
BOISE MERIDIAN
1948

SCALE
0 1 2 3 4 5 MILES

LEGEND

- NATIONAL FOREST BOUNDARY
- ADJACENT NATIONAL FOREST BOUNDARY
- MAIN MOTOR HIGHWAY
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COMPILED AT REGIONAL OFFICE, OGDEN, 1947
FROM U.S.G.S., BU. LAND MAN (FORMERLY G.L.O.)
FOREST SERVICE AND OTHER SURVEYS BY
M.H. LEWIS.
TRACED 1947 BY A.G. SAUNDERS AND C. SPAUH.

CAUTION: THE ACCURACY OF THIS MAP IS UNKNOWN, SINCE COMPILED FROM SOURCES OF UNKNOWN ACCURACY

POLYCONIC PROJECTION
1927 NORTH AMERICAN DATUM

LONGITUDE WEST FROM GREENWICH

ARMY MAP SERVICE, CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, 90872 000
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1948